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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,468 06/23/2003		Seung-Deog An	1349.1227	7267
21171	7590 04/05/2005		EXAMINER	
STAAS & HALSEY LLP			GRAINGER, QUANA MASHELL	
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
	ON, DC 20005	2852		
			DATE MAILED: 04/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
Office Action Summary		10/600,468	AN ET AL.					
		Examiner	Art Unit					
		Quana M. Grainger	2852					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl' period for reply is specified above, the maximum statutory period or tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this of C (35 U.S.C. § 133).					
Status								
1)⊠ Responsive to communication(s) filed on 12 January 2005.								
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)⊠ 6)⊠	 Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 3-9 is/are allowed. Claim(s) 1,10 and 16 is/are rejected. Claim(s) 2,11-15,17-18 is/are objected to. 							
Applicati	on Papers							
9)[The specification is objected to by the Examine	r.						
10)	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive a (PCT Rule 17.2(a)).	on No d in this National	Stage				
∆ttachme`=	Ne)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2)	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:	te	D-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueno et al. (4,990,961) in view of Arai (6,724,410). Ueno et al. teaches a predetermined DC voltage that is applied to the development rollers that are not currently developing. This voltage is the same polarity as the toner. Ueno et al. does not teach an OPC drum.

Arai teaches an OPC drum and fixed color development rollers. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of Ueno et al. with the image forming apparatus of Arai to prevent blank spots and incomplete transfer of the image (column 1, lines 43-53).

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4. Claim 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et al. (JP63-301079A) in view of Yoshida et al. (JP61-254960A). Maruyama et al. teaches switches, a high developing voltage driver comprising AC and DC selectively closing a mechanical contact and apply the high voltage to a developing roll. Maruyama et al. does not teach an OPC drum.

Yoshida et al. teaches an OPC drum as is well known in the art (page 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of Yoshida et al. with the image forming apparatus of Maruyama et al. since the type of drum was not given and it is known in the art to use an OPC drum as taught by Yoshida et al.

Allowable Subject Matter

5. Claims 2, 11-15, and 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 3-9 are allowed.

Response to Arguments

6. Applicant's arguments with respect to claims 1-18 have been considered but are most in view of the new ground(s) of rejection.

Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nishikawa and Oka et al. teach pertinent prior art using voltage dividers.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana M. Grainger whose telephone number is 571-272-.
 The examiner can normally be reached on 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on 571-272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quana M Grainger Primary Examiner Art Unit 2852